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PTO-1390 (Rev. 02-2005)

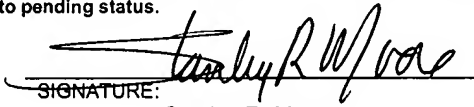
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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>  |   | ATTORNEY'S DOCKET NUMBER<br>33857-00011USPX                         |
|  |   | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/535549</b> |
| INTERNATIONAL APPLICATION NO.<br>PCT/JP2003/014248   | INTERNATIONAL FILING DATE<br>10 November 2003 | PRIORITY DATE CLAIMED<br>19 November 2002                           |
| TITLE OF INVENTION<br>MULTIPLEXING QAM APPARATUS USING DIFFERENTIAL GAIN MULTIPLEXING,<br>MULTIPLEXING QAM DEMODULATION APPARATUS, AND COMMUNICATION<br>METHOD   |   |   |
| APPLICANT(S) FOR DO/EO/US<br>Kazutomo Hasegawa   |   |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |   |   |
| 1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.<br>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.<br>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.<br>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).<br>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))<br>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).<br>b. <input type="checkbox"/> has been communicated by the International Bureau.<br>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).<br>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).<br>a. <input checked="" type="checkbox"/> is attached hereto.<br>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).<br>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))<br>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).<br>b. <input type="checkbox"/> have been communicated by the International Bureau.<br>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.<br>d. <input type="checkbox"/> have not been made and will not be made.<br>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).<br>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).<br>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).<br><b>Items 11 to 20 below concern document(s) or information included:</b><br>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.<br>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.<br>13. <input type="checkbox"/> A preliminary amendment.<br>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.<br>15. <input type="checkbox"/> A substitute specification.<br>16. <input type="checkbox"/> A power of attorney and/or change of address letter.<br>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.<br>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).<br>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).<br>20. <input checked="" type="checkbox"/> Other items or information: Copy of International Search Report, and Return Receipt Postcard |   |   |

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|   |  |   |            |   |                            |  |
|---|--|---|------------|---|----------------------------|--|
| <p><b>10/535549</b></p> <p>U.S. APPLICATION NO. (37 CFR 1.53) <b>10/535549</b></p>  |  | <p>INTERNATIONAL APPLICATION NO.<br/><b>PCT/JP2003/014248</b></p>             |            | <p>ATTORNEY'S DOCKET NUMBER<br/><b>33857-00011USPX</b></p>                                      |                            |  |
| <p>The following fees have been submitted</p>   |  |   |            | <p><b>CALCULATIONS</b></p>  | <p><b>PTO USE ONLY</b></p> |  |
| 21.   | <input checked="" type="checkbox"/> Basic national fee | \$300   |            | \$ 300.00   |                            |  |
| 22.   | <input checked="" type="checkbox"/> Examination fee    |   |            |   |                            |  |
| <p>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... \$100</p>  |  |   |            |   |                            |  |
| <p>All other situations ..... \$200</p>   |  |   |            | \$ 200.00   |                            |  |
| 23.   | <input checked="" type="checkbox"/> Search fee         |   |            |   |                            |  |
| <p>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100</p>   |  |   |            |   |                            |  |
| <p>International Search Report prepared and provided to the Office ..... \$400</p>  |  |   |            |   |                            |  |
| <p>All other situations ..... \$500</p>   |  |   |            | \$ 500.00   |                            |  |
| <p><b>TOTAL OF 21, 22 and 23 =</b></p>  |  |   |            | \$ 1,000.00   |                            |  |
| <p><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.</p> |  |   |            |   |                            |  |
| Total Sheets  | Extra sheets   | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE       |   |                            |  |
| - 100 =   | /50 =  |   | x \$250.00 |   |                            |  |
| <p>Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).</p>  |  |   |            | \$  |                            |  |
| CLAIMS  | NUMBER FILED   | NUMBER EXTRA  | RATE       |   |                            |  |
| Total claims  | 9 - 20 =   |   | x          | \$ 0.00   |                            |  |
| Independent claims  | 5 - 3 =  | 2   | x 200.00   | \$ 400.00   |                            |  |
| <p>MULTIPLE DEPENDENT CLAIM(s) (if applicable)</p>  |  |   | +          | \$  |                            |  |
| <p><b>TOTAL OF ABOVE CALCULATIONS =</b></p>   |  |   |            | \$ 1,400.00   |                            |  |
| <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.</p>   |  |   |            | \$  |                            |  |
| <p><b>SUBTOTAL =</b></p>  |  |   |            | \$ 1,400.00   |                            |  |
| <p>Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).</p>   |  |   |            | \$  |                            |  |
| <p><b>TOTAL NATIONAL FEE =</b></p>  |  |   |            | \$ 1,400.00   |                            |  |
| <p>Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</p>  |  |   |            | \$  |                            |  |
| <p><b>TOTAL FEES ENCLOSED =</b></p>   |  |   |            | \$ 1,400.00   |                            |  |
|   |  |   |            | Amount to be refunded:  | \$                         |  |
|   |  |   |            | Amount to be charged:   | \$                         |  |
| <p>a. <input checked="" type="checkbox"/> A check in the amount of \$ 1,400.00 to cover the above fees is enclosed.</p>   |  |   |            |   |                            |  |
| <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p>  |  |   |            |   |                            |  |
| <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 10-0447. A duplicate copy of this sheet is enclosed.</p>                                    |  |   |            |   |                            |  |
| <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>               |  |   |            |   |                            |  |
| <p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.</p>   |  |   |            |   |                            |  |
| <p>SEND ALL CORRESPONDENCE TO:</p>  |  |   |            |   |                            |  |
| <p>Stanley R. Moore<br/>JENKENS &amp; GILCHRIST, A PROFESSIONAL CORPORATION<br/>1445 Ross Avenue, Suite 3200<br/>Dallas, Texas 75202<br/>(214) 855-4713<br/>CUSTOMER NUMBER: 23932</p>  |  |   |            |   |                            |  |
|   |  |   |            | SIGNATURE:  |                            |  |
|   |  |   |            | NAME: Stanley R. Moore  |                            |  |
|   |  |   |            | NAME:   |                            |  |
|   |  |   |            | 26,958  |                            |  |
|   |  |   |            | REGISTRATION NUMBER   |                            |  |